

TECHNICAL DATA
DATA SHEET 5147, Preliminary

HERMETIC ULTRAFAST RECTIFIER

DESCRIPTION: A 200-VOLT, 80 AMP, 50 NANOSECOND RECTIFIER IN A HERMETIC LCC-3P PACKAGE.

FEATURES:

- Soft Reverse Recovery to minimize snubbers / EMI issues
- Low profile ceramic package for reduced inductance
- Low forward drop
- Available with JANTX, JANTXV, JANS equivalent screening

MAXIMUM RATINGS

ALL RATINGS ARE AT $T_A = 25\text{ C}$ UNLESS OTHERWISE SPECIFIED

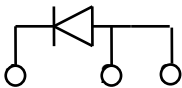
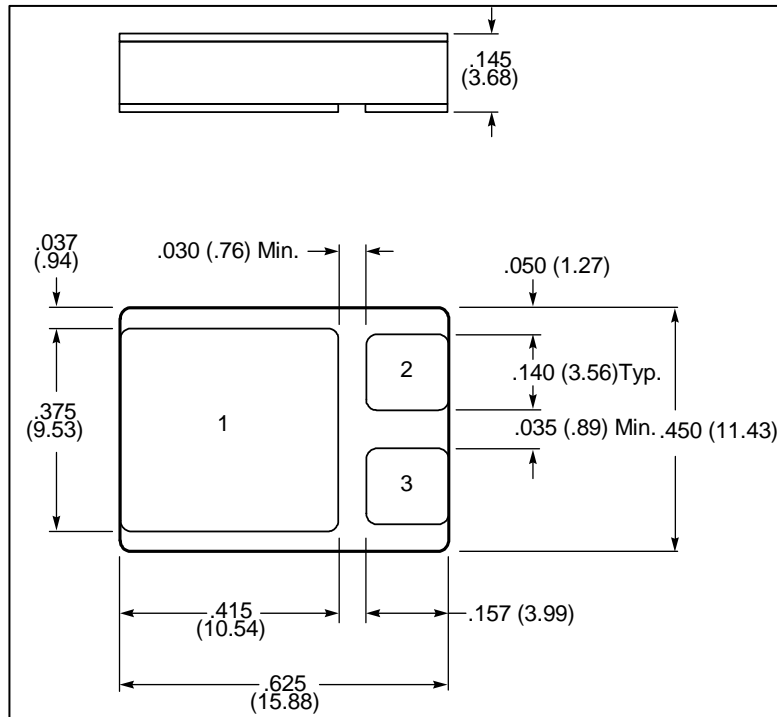
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE (PER LEG)	PIV	200	Volts
MAXIMUM DC OUTPUT CURRENT ($T_C = 100\text{ }^\circ\text{C}$)	I_O	80	Amps
PEAK SINGLE CYCLE SURGE CURRENT $t_p = 8.3\text{ msec}$	I_{FSM}	250	Amps
MAXIMUM THERMAL RESISTANCE	$R_{\theta JC}$	0.8	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	$T_{op/stg}$	-65 to +175	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP $I_f = 5\text{ Amps}, T_C = 25\text{ }^\circ\text{C}$	V_{f1}	0.75	V
$I_f = 25\text{ Amps}, T_C = 25\text{ }^\circ\text{C}$	V_{f2}	0.90	
$I_f = 50\text{ Amps}, T_C = 25\text{ }^\circ\text{C}$	V_{f3}	1.05	
$I_f = 80\text{ Amps}, T_C = 25\text{ }^\circ\text{C}$	V_{f4}	1.15	
$I_f = 50\text{ Amps}, T_C = -55\text{ }^\circ\text{C}$	V_{f5}	1.15	
$I_f = 50\text{ Amps}, T_C = 100\text{ }^\circ\text{C}$	V_{f6}	0.90	
MAXIMUM REVERSE CURRENT I_r @ 200V, $T_C = 25\text{ }^\circ\text{C}$	I_r	50	μA
MAXIMUM REVERSE CURRENT I_r @ 200V, $T_C = 100\text{ }^\circ\text{C}$	I_r	8	mA
MAXIMUM REVERSE RECOVERY TIME $I_F = 9.9\text{A}, di_F/dt = 200\text{ A}/\mu\text{s}, V_R = 30\text{V}, T_C = 25\text{ }^\circ\text{C}$	t_{RR}	50	ns
MAXIMUM REVERSE RECOVERY Current $I_F = 9.9\text{A}, di_F/dt = 200\text{ A}/\mu\text{s}, V_R = 30\text{V}, T_C = 25\text{ }^\circ\text{C}$	I_{RM}	5	A

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MECHANICAL DIMENSIONS: In Inches / mm



LCC-3P

PINOUT TABLE

DEVICE TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE

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